

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

37. (currently amended) A method of inhibiting the pathological proliferation of ovarian cancer cells in a patient that has a population of ovarian cancer cells comprising cancer cells in which ~~3q26~~ 3q26.3 is amplified, the method comprising administering a therapeutically effective dose of an inhibitor of PI₃ kinase to the patient, wherein the inhibitor inhibits PI₃ kinase enzymatic activity.

38. (currently amended) The method of claim 37, wherein the inhibitor of PI₃ kinase is a non-peptidic inhibitor of PI3 kinase phosphoinositide phosphorylation ~~enzyme~~ activity.

39. (previously presented) The method of claim 38, wherein the non-peptidic inhibitor is LY294002.